

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Compl to if Known		
			Application Number	10619360	
			Filing Date	JULY 14 2003	
			First Named Inventor	WILLIAM J. HENNESSEY	
			Group Art Unit		
			Examiner Name		
Sheet	1	of	34	Attorney Docket Number	WJH-589

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
RBD		5779270		TANAKA	7/1998	
		5765897		SNYDER ET AL	6/1998	
		5564744		FROST	10/1996	
		5397088		WHITE	3/1995	
		4660852		KATAYAMA ET AL	4/1987	
		4273359		SCHOLZ ET AL	6/1981	
		6003928		CURTINDALE	12/1999	
		5855408		RICKARDS	1/1999	
		5544927		SNYDER ET AL	8/1996	
		5061005		VAN ORDER ET AL	10/1991	
		5056853		VAN ORDER	10/1991	
		5031954		PETERSON ET AL	7/1991	
		4989911		VAN ORDER	2/1991	
		3252179		WATSON	5/1996	
		2518766		EXNER	8/1990	
		2446866		BELL	8/1998	
		2304223		WESTROPE	12/1992	
		5031953		MILLER	7/1991	
		5082322		CEKANDER ET AL	11/1992	
		5098151		PETERSON	3/1992	

[illegible]

Examiner Signature	KBP	Date Considered	5-28-04
--------------------	-----	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
o a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	24
-------	---	----	----

Complete if Kn wn

Application Number	10/619360
Filing Date	JULY 14 2003
First Named Inventor	WILLIAM J. HENNESSEY
Group Art Unit	
Examiner Name	
Attorney Docket Number	WIH-589

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code? (if known)			
R30		5201564		PRICE	4/1993	
		5236240		BURNS ET AL	8/1993	
		5451022		PETERSON	9/1995	
		5752853		CURTINDALE	5/1998	
		5857728		CROTTY III	1/1999	
		5975617		JACQUEMIN ETAL	11/1999	
		6068323		BROWN ET AL	5/2000	
		6179365		HENNESSEY	1/2001	
		6234558		CURTINDALE	5/2001	
		6250708		KURACHI	6/2001	
		6494521		HENNESSEY	12/2002	
	2001	0007393		SAWAYANGI	12/2000	
		4529157		SUMAN ETAL	7/1985	
		4569552		MARKS	2/1986	
		4858983		WHITE ET AL	8/1989	
		5242204		KITTERMAN ETAL	9/1993	
		5314227		WELAND ETAL	5/1994	
		5374097		GEORGE ETAL	12/1994	
		5417466		GIANTONIO ET AL	5/1995	
		5752853		CURTINDALE	5/1998	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

KBF

Date
Considered

S. 28.04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449/APTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Compl to if Known Application Number <u>10/619360</u> Filing Date <u>JULY 14, 2003</u> First Named Inventor <u>WILLIAM J. HENNESSEY</u> Group Art Unit _____ Examiner Name _____ Attorney Docket Number <u>WJH-589</u>	
Sheet	<u>3</u>	of	<u>34</u>		

[illegible][illegible]

Examiner Signature	K36	Date Considered	5.28.04
-----------------------	-----	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



OCT 17 2003

INFORMATION DISCLOSURE CITATION

(Use sev ral sheets if necessary)

ATTY. DOCKET NO.

WJH-589

SERIAL NO.

10/6/9 360

APPLICANT

WILLIAM J. HENNESSEY

FILING DATE

7/14/2003

NOUP

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

KBL

DATE CONSIDERED

- 5.28.04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	JULY 14 2003
				First Named Inventor	WILLIAM J. HANNOSEY
				Group Art Unit	
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	WJH-589

[illegible]

Examiner Signature	KBP	Date Considered	5-28-04
-----------------------	-----	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.